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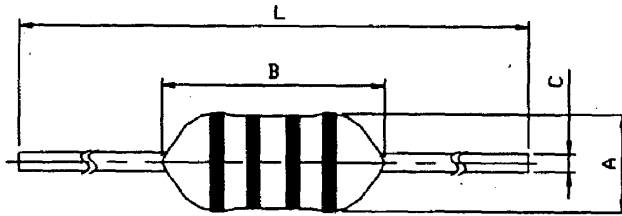
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SPECIFICATION

TYPE

CEC

1. DIMENSION (UNIT: mm)



COLOR RING 1 2 3 4

A	MAX. $\phi 3.2$
B	MAX. 7.0
C	$\phi 0.50 \pm 0.05$ (0.1~18 μ H) $\phi 0.48 \pm 0.05$ (22~1000 μ H)
L	63 ± 3

* THE LENGTH OF THE TERMINAL PINS DOES NOT INCLUDE SOLDER TIP.

2. CIRCUIT

Jameco Part Number 208143



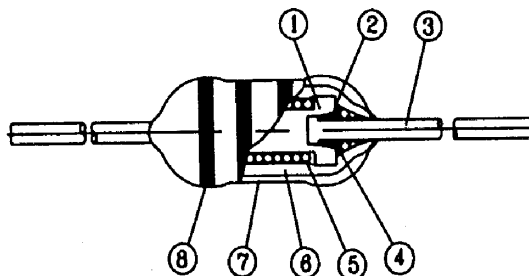
3. MARKING

COLOR	FIRST FIGURE 1	SECOND FIGURE 2	MULTIPLIER 3	TOLERANCE 4
BLACK	0	0	1	$\pm 20\%$
BROWN	1	1	10	-
RED	2	2	100	-
ORANGE	3	3	1000	-
YELLOW	4	4	-	-
GREEN	5	5	-	-
BLUE	6	6	-	-
VIOLET	7	7	-	-
GRAY	8	8	-	-
WHITE	9	9	-	-
GOLD	-	-	0.1	$\pm 5\%$
SILVER	-	-	0.01	$\pm 10\%$

TYPE

CEC

4. CONSTRUCTION:



No.	NAME	MATERIAL	MANUFACTURER
1	CORE	FERRITE CORE CM11, CM9D, CL9H OR EQUIVALENT	TONICHI FERRITE PRODUCTS CO., LTD. etc.
2	ADHESIVE	EPOXY RESIN	GUANG ZHOU WELLS CHEMICAL CO., LTD. etc.
3	LEAD WIRE	SOLDER PLATED COPPER WIRE	WELL FORE SPECIAL WIRE CORPORATION
4	SOLDER	H60A	ALPHA METALS LTD. etc.
5	WIRE	POLYURETHANE ENAMELLED COPPER WIRE	RIKEN ELECTRIC WIRE CO., LTD. etc. JENLEY ENTERPRISES LTD. JUNG SHING WIRE CO., LTD.
6	UNDER-COATING RESIN	BUTADIENE RESIN	HOMETOWN INDUSTRIAL CO., LTD. etc.
7	OVER-COATING RESIN	EPOXY RESIN	HOMETOWN INDUSTRIAL CO., LTD. etc.
8	COLOR CODE	MELAMINE RESIN	HOMETOWN INDUSTRIAL CO., LTD. etc.

5. GENERAL CHARACTERISTICS

* STANDARD TESTING CONDITIONS:

UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MEASUREMENTS AND TESTS ARE AS FOLLOWS: AMBIENT TEMPERATURE: 15°C~35°C. RELATIVE HUMIDITY : 25% ~85%. AIR PRESSURE : 86kPa ~106kPa.

IF THERE IS ANY DOUBT ABOUT THE RESULTS, MEASUREMENT SHALL BE MADE WITHIN THE FOLLOWING LIMITS: AMBIENT TEMPERATURE: 20°C±1°C. RELATIVE HUMIDITY : 63% ~67%. AIR PRESSURE : 86kPa ~106kPa.

No.	ITEMS		TEST CONDITIONS	SPECIFICATION
1	OPERATION TEMPERATURE STORAGE TEMPERATURE			-25 ~ +85℃ (INCLUDING COIL TEMPERATURE RISE) -40 ~ +85℃
2	LEAD TERMINAL STRENGTH	PULLING	A STATIC PULLING FORCE OF 25N IN A DIRECTION PARALLEL TO THE LEAD TERMINALS FOR 5±1 SECONDS.	NO TERMINAL BREAKAGE OR LOOSENING
		BENDING	LOAD WITH 3.0N AND 90° BENDING AND STRAIGHTENING TWICE IN TWO DIRECTIONS (UPWARD & DOWNWARD)	
3	DIELECTRIC WITHSTAND VOLTAGE TEST		D.C.500V APPLIED BETWEEN WINDING-BODY FOR 1 MINUTE.	NO DIELECTRIC DAMAGE
4	INSULATION RESISTANCE TEST		D.C.500V APPLIED BETWEEN WINDING-BODY FOR 1 MINUTE.	OVER 100 MΩ
5	OVER CURRENT TEST		INPUT 2 TIMES OF RATED INTO THE SAMPLE FOR 5 MINUTES.	NO FIRE OR ANY ABNORMALITY
6	RESISTANCE TO SOLDERING HEAT TEST		FIX THE SAMPLES ON A 1.6MM THICKNESS PCB, THEN DIP THE SAMPLE LEADS UP TO THE PCB INTO A SOLDERING BATH OF 260±5℃ FOR 5±1 SECONDS.	NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±3.0% QU: WITHIN ±20%
7	SOLDER ABILITY TEST		IMMERSE THE TERMINAL IN FLUX FOR 5 SECONDS. THEN DIP THE TERMINAL INTO A SOLDERING BATH OF 235±5℃ FOR 2±0.5 SECONDS.	OVER 90% OF THE SURFACE BEING IMMERSED SHALL BE COVERED WITH NEW SOLDER UNIFORMLY.
8	VIBRATION TEST		AMPLITUDE: 1.5MM P-P FREQUENCY:10~55~10HZ (1 MINUTE PER CYCLE) DURATION: 2 HOURS IN EACH OF X.Y.Z AXIS. (TOTAL 6 HOURS)	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±1.0% QU: WITHIN ±20%
9	SHOCK TEST		PEAK ACCELERATION: 981M/S ² DURATION OF PULSE: 10MS SHOCK TIMES: 3 TIMES IN EACH OF X, Y, Z AXIS. (TOTAL 9 TIMES)	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±1.0% QU: WITHIN ±20%
10	HUMIDITY TEST		TEMPERATURE: 40℃±2℃ HUMIDITY: 90%~95%RH DURATION: 500±12 HOURS.	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10% QU: WITHIN ±20%
11	DRY HEAT TEST		TEMPERATURE: 85℃±2℃ DURATION: 500±12 HOURS.	
12	COLD TEST		TEMPERATURE: -25℃±3℃ DURATION: 500±12 HOURS.	
13	DRY HEAT WITH LOAD		TEMPERATURE: 85℃±2℃ LOAD CONDITION: RATED CURRENT DURATION: 500±12 HOURS.	
14	DAMP HEAT WITH LOAD		TEMPERATURE: 40℃±2℃ HUMIDITY: 90%~95%RH  LOAD CONDITION: RATED CURRENT DURATION: 500±12 HOURS.	
15	THERMAL SHOCK		5 CONTINUOUS CYCLES SHOWN AS BELOW	
			TEMPERATURE	DURATION
			-25℃±3℃	30 MINUTES
			85℃±3℃	30 MINUTES

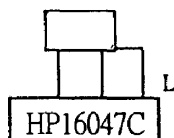
ELECTRICAL CHARACTERISTIC INSPECTION REPORT

電氣性能測試報告(五)

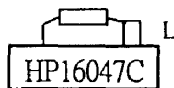
2002年6月3日

CUSTOMER (客戶名稱): 菁盛 (R4005)					PART NO: CEC-100J SPEC. NO. H500-0011	
ITEM (項目)	L (μ H)	Q	SRF (MHz)	Rdc (Ω)	RATED CURRENT (A)	
					I dc ($\Delta L/L:-10\%$)	I ($\Delta T=20^\circ\text{C}$)
SPEC. (規格)	10 $\pm$ 5%	60 Min.	28.7 Min.	1.56 Max.	0.67 Max.	0.21Max.
1	9.90	93	48.2	1.23	1.00	0.30
2	9.91	92	44.5	1.23	0.96	
3	10.12	87	40.7	1.23	1.00	
4	10.08	86	40.7	1.23	0.98	
5	10.03	96	44.4	1.27	0.98	
Max.	10.12	96	48.2	1.27	1.00	
Min.	9.90	86	40.7	1.23	0.96	
R	0.22	10	7.5	0.04	0.04	
$\bar{X}$	10.008	90.8	43.70	1.238	0.984	
TESTING FREQUENCY (測試頻率)	7.96MHz/1V					

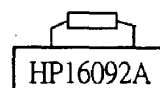
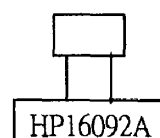
TESTING DIAGRAM (測試示意圖):



L=3/5/10(mm)



L=10(mm)



TESTING INSTRUMENT (測試儀器):

- | | | | |
|--------------------------|---|-------------------------|---|
| 1. Q METER | ☐ MQ-1601 | 7. IMPEDANCE ANALYZER | ☐ HP-4191A |
| 2. L.C.R. METER | ☐ LCR-745 | | ☒ HP-4291B |
| | ☒ HP-4284A | | ☐ HP-4395A |
| | ☒ HP-4285A | | ☐ HP-4294A |
| | ☐ HP-4262A | 8. BIAS CURRENT SOURCE | ☒ HP-42841A |
| 3. L.C.Z. METER | ☐ HP-4277A | 9. MICRO-OHM METER | ☐ KEITHLEY 580 |
| 4. MULTIMETER | ☒ HP-34401A | | ☒ HP-34420A |
| 5. DC POWER SUPPLY METER | ☒ HP-E3632A | 10. NETWORK ANALYZER | ☐ HP-8753C |
| 6. THEROMETER | ☐ TES1310 | 11. DIELECTRIC ANALYZER | ☐ DU-332 |

TESTING CONDITION (測試條件):

TEMPERATURE (溫度): 20 $^\circ\text{C}$
 HUMIDITY (濕度): 65 %

APPROVED

CHECKED

TESTED

